

A large, semi-transparent graphic in the background features a white letter 'V' on the left and a white play button icon on the right, both set against a light green background. The graphic is partially obscured by the text and another graphic below it.

NITROGEN GAS LIFTING WITH COILED TUBING

A large, semi-transparent graphic at the bottom of the page features the word 'Vizle' in white, set against a light green background.

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Wellbore Pressure Relationships

- Overbalanced – Pressure inside of wellbore greater than reservoir. (Drilling Process)
- Underbalanced – Pressure inside of wellbore less than reservoir pressure (Producing the well)
- Balanced – Pressure inside of wellbore is equal to reservoir pressure (Multiple) Purposes



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Gas Lift Applications

- Well Kick Off
 - Recovering fluids from the formation
 - Initiating the well to flow on it's own
- Well Unloading
 - Reducing the height of fluid in the wellbore
 - Lowering the bottom hole pressure to a specified value
 - Nitrogen Cushion



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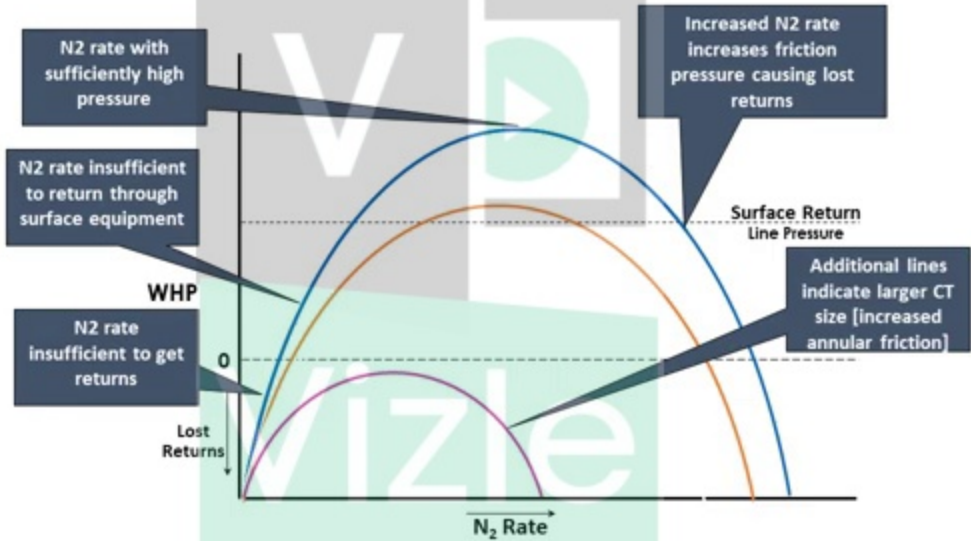


Well Kick-off Procedures

- If lost returns: stop and pull up until returns are re-established
 - When the final 'unloading depth' has been reached, an assessment must be made as to how long to continue circulating nitrogen.
 - This may be based on one or more of the following:
 - Amount of fluid unloaded to this point
 - Bottoms-up time
 - Response from the well
- Pull out of hole circulating – minimum rate

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Nitrogen Optimization





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